Balance Crane.

~~Fig. is a section~~

Plate - represents the Balance Crane which was employed when the guy ropes of the Shoreable Beam Cranes became "too taunt" as sailors expressed it or were too near the perpendicular thereby rendering the apparatus unstable. To remedy this the crane alluded to was kept in equilibrium by a truck weight of cast iron so adapted as to counteract the varying load upon the working arm or beam. The Crane here represented is the same in principle as that used at the Bull Rock & Carr Rock from the account of which works this description is taken excepting in 2 or 3 as relates to the modifications which the Machine underwent for the Skerry: Ore Towers.

× × ×

e is the bracket or counterpoise which
at pleasure is moved horizontally
along the balance beam f, which lifts
the working beam g creates of two plates
of cast iron suspended by
the centre chain (h) malleable iron bar
(which are fixed to the centre chains
(k) in which the Journals of the
gearing work. The whole body of
the frame which revolves freely
round the upright pillar column
(bb) upon cast iron friction balls
chain at — is supported by
the upper end of the upright column (bb)
by means of the cotter or spring bolt
(k). The winch handle (l) to that
end is that with which the man
purchase chain chain or rope
over the pulley s is worked from
which the stone d is suspended
w is the wheel for single
purchase while for heavy lifts
the wheel n' can be thrown into
gear.

(Circular)

Edinburgh 23d January 1841.

Gentlemen

I beg to acquaint you that the Supply of "best pale winter bagged Spermaceti Oil" wanted for the use of the Northern Lighthouses for the year 1841. is Seventy five Tuns of 252 Gallons. If you intend to Offer for this Contract, your Sample of one Gallon of Oil carefully put up in an earthen Jar addressed to "Captn Taylor Lighthouse Stone Leith" must reach him on or before the 1st of March. The Sample must be labelled with your private mark (a private mark is particularly requested) which must be referred to in your Offer. It is to be understood that the quantity may at the option of the Purchasers be ascertained either by the use of a Five or Ten Gallon measure or by weight at the rate of 8¾ lb Avoirdupois per Gallon.

Early in the month of April it is intended to send the Lighthouse Oil Casks to London, where an Officer of the Board will examine the Oil and give directions for shipping it. The Oil must be put free on board, and all wharfage risks undertaken. But whatever may be required for the careful cooperage and cleaning of the casks before filling the Oil at the premises of the Contractor will be paid by the Board. It may further be noticed that the Oil is measured & tried both as to its purity and burning quality, on being delivered into the Stock Cisterns at the several Lighthouses, and if then found faulty it will be returned at the Cost and charges of the Contractor

In reference to your Sample, an Offer to furnish any quantity that may be required from you, of from Twenty to Seventy five Tuns, at a Specified rate per Tun to be paid for on the 2d of August 1841. must reach this on or before

the 6th March, sealed and addressed "Tender for Oil" "To the Commissioners of the Northern Lighthouses" and post under cover to "Charles Cuningham Esq. Secretary to the Lighthouse Board Edinburgh".

It may be proper to notice for the government of those who make offer for this Contract that Oil for the use of Lighthouses undergoes a most particular species of trial; each of the Lightkeepers in his nightly management of the Lamps being perfectly acquainted with the properties of good Oil.

In accepting an offer for supplying Oil the best sample is preferred to the lowest price by the Board. I beg further to notice that you are requested to conform strictly to the terms of this letter in offering for "Pale winter bagged Spermaceti Oil". If you have any other or different proposition to make to the Lighthouse Board, let it be in a separate communication. Should any further information of a preliminary nature be wanted, application may be made to me.

An answer is expected to reach the Secretary at 6th March with or without an offer.

I am Gentlemen

Your Mo: Obt Servt

Robert Stevenson

N. B. Unsuccessful Offerers will as usual be paid half a guinea in name of charges for Sample.

Messrs Langton Bicknell
Oil Merchts
London

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JAN
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1841

Messrs Langton & Bicknell
Oil Merchts
Newington Butts
London

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STEVENSON (Robert). Ingénieur écossais, spécialiste des phares. 1772-1850.-

L.S. à MM. Langton et Becknell. Edimbourg, 23 janvier 1841.

1 p. 2/3 in-fol., adresse et marques postales. 60 Frs.

C'est une offre de marché, proposé par Stevenson au nom de la Northern Light office, en vue de fournir l'huile destinée aux différents phares du Royaume-Uni, pour l'année 1841. Les diverses conditions du marché sont énumérées.

Tabbaye-68